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APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
TITLE: Hematopoietic Stem Cell Gene Therapy
DOCKET No.: NOR-016CP2 / 286336.155 1 of 45

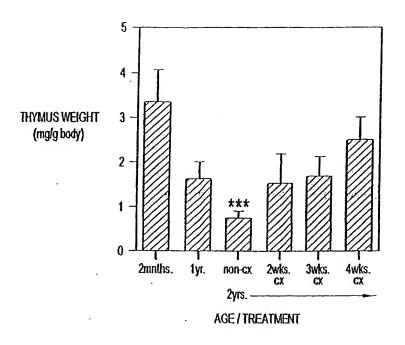


Figure 1A

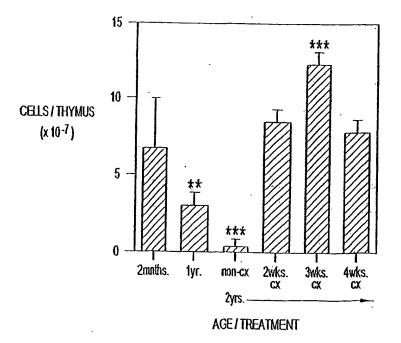


Figure 1B

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
TITLE: Hematopoietic Stem Cell Gene Therapy
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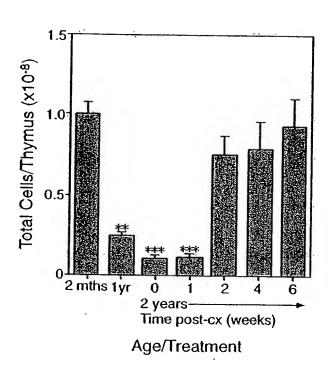


FIGURE 1 C

APPLICANT: Boyd APPLN. NO.: TBA

FILING DATE: December 30, 2003 EXPRESS MAIL No. EV182107278US TITLE: Hematopoietic Stem Cell Gene Therapy DOCKET No.: NOR-016CP2 / 286336.155

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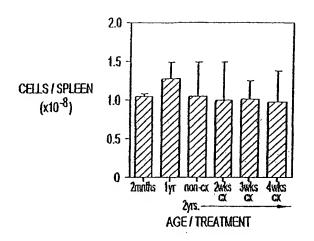


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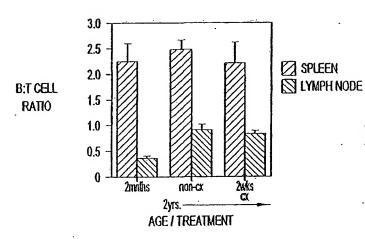


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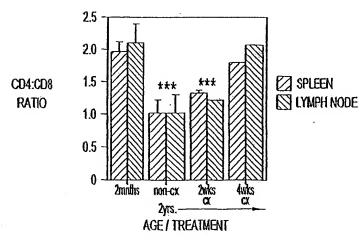
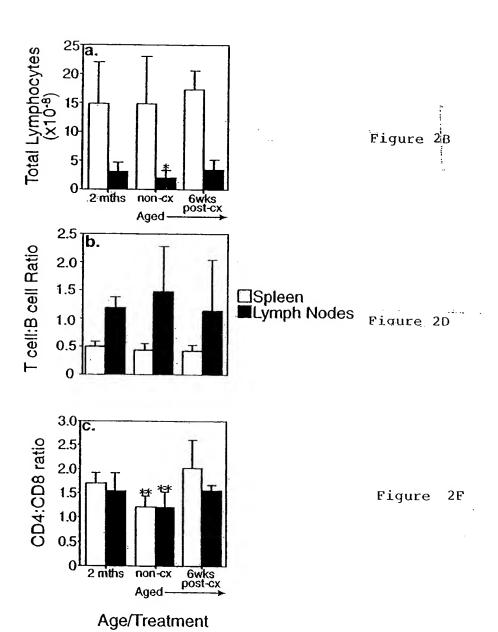


Figure 2

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
TITLE: Hematopoietic Stern Cell Gene Therapy
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FILING DATE: December 30, 2003

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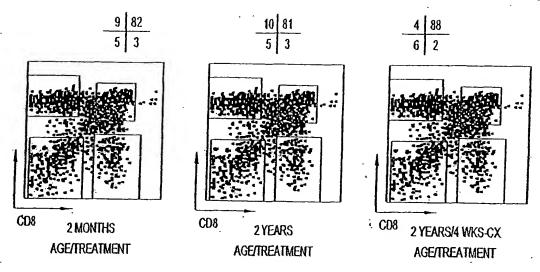


Figure 3

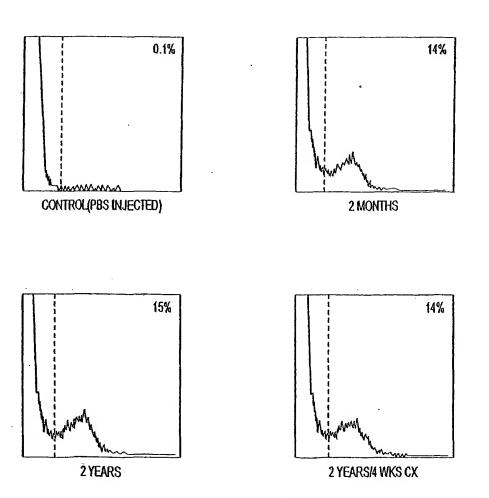
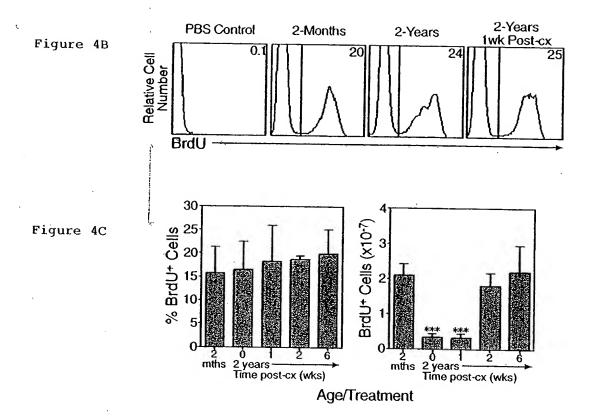


Figure 4A

APPLICANT: Boyd
APPLN. NO.: TBA
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APPLICANT: APPLN. NO.:

CD4

CD8

APPLN. NO.: 1BA
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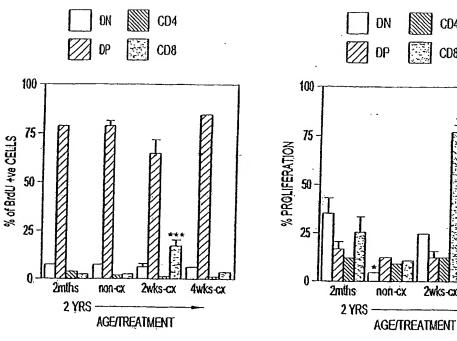


Figure 5A

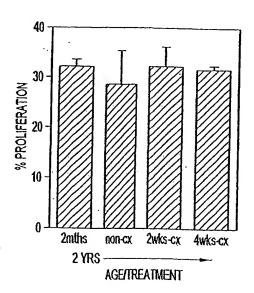
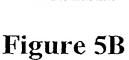


Figure 5



2wks-cx

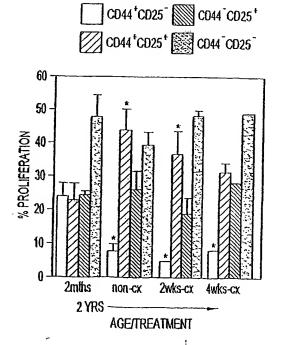
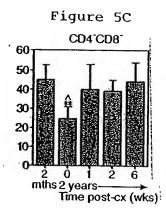
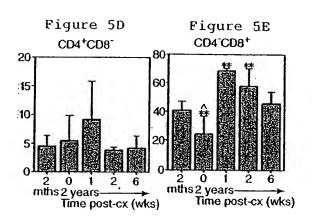
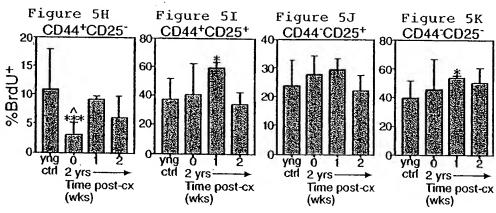


Figure 5 G

APPLICANT: Boyd
APPLN. NO.: TBA Boyd
FILING DATE: December 30, 2003 EXPRESS MAIL No. EV182107278US TITLE: Hematopoietic Stem Cell Gene Therapy DOCKET No.: NOR-016CP2 / 286336.155) 8 of 45







Age/Treatment

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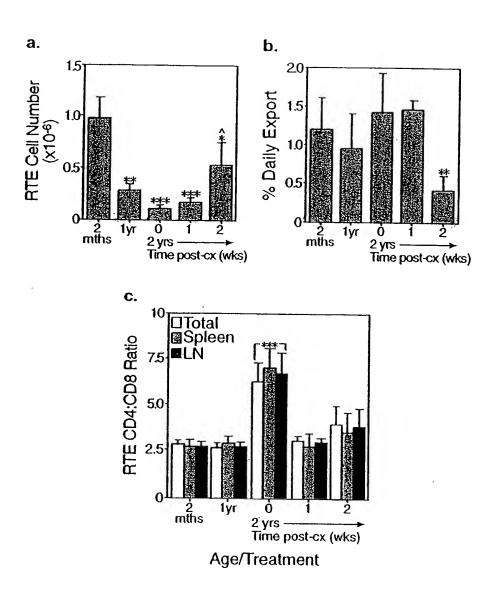


FIGURE 6.

APPLICANT: Boyd
APPLN. NO.: TBA
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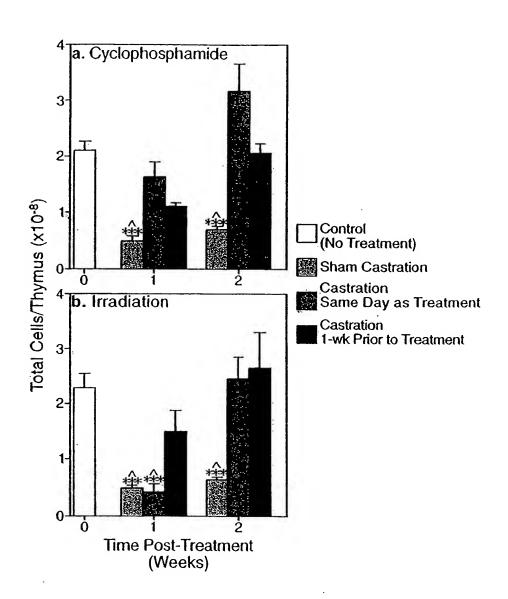


FIGURE 7.

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
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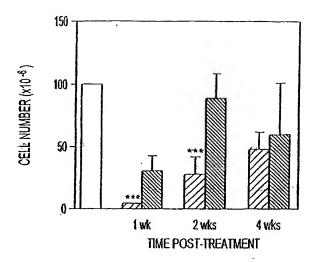
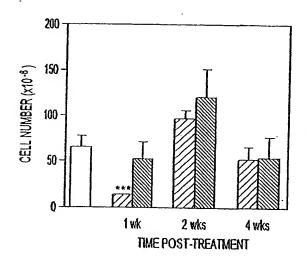


Figure 8A



CONTROL CYCLOPHOSPHAMIDE ALONE

CYCLOPHOSPHAMIDE AND CASTRATION (SAME DAY)

Figure 8B

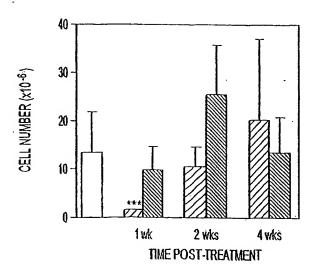
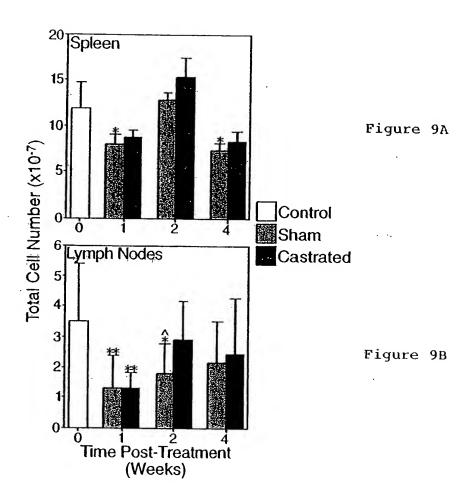


Figure 8c

APPLICANT: Boyd
APPLN. NO.: TBA
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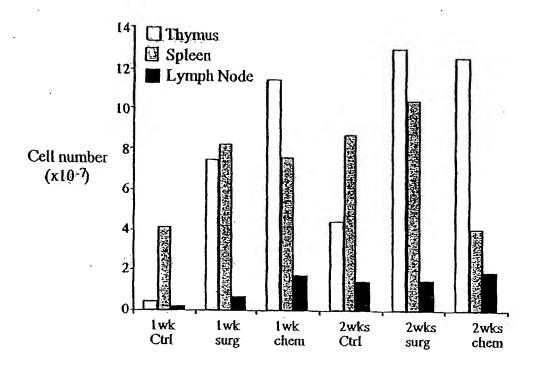


Figure 10

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
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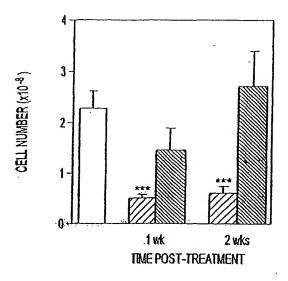
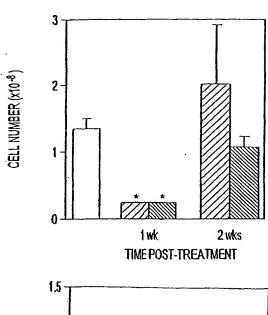


Figure 11A



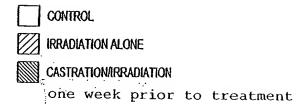


Figure 11B

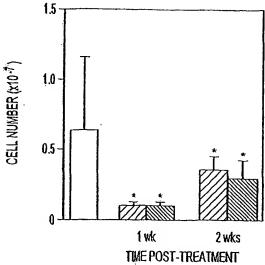


Figure 11c

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
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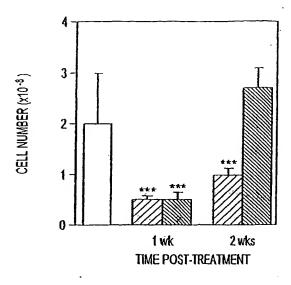
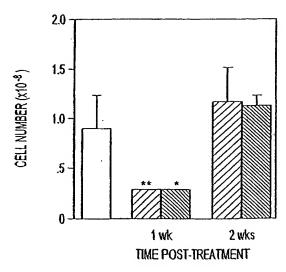


Figure 12A



CONTROL IRRADIATION ALONE

CASTRATION/IRRADIATION (SAME DAY)

Figure 12B

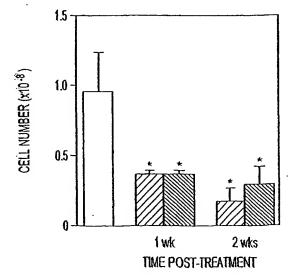
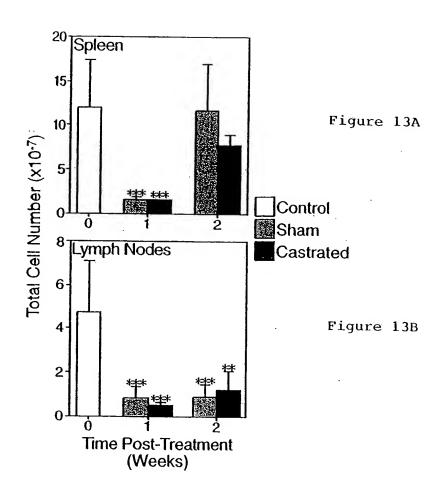


Figure 12c

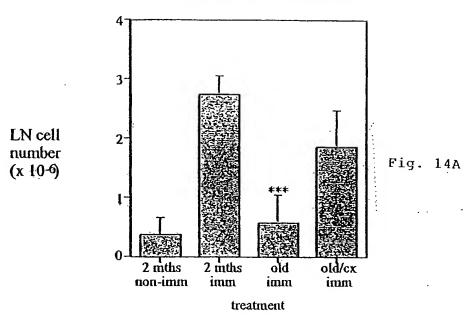
APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
TITLE: Hematopoietic Stem Cell Gene Therapy
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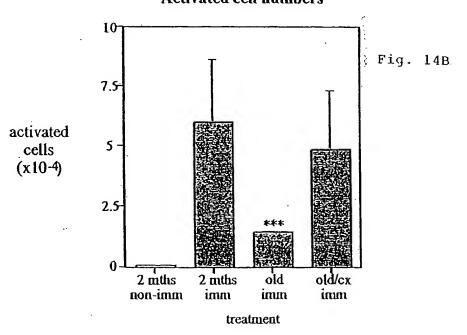
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APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
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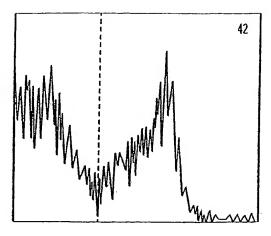
LN size post-HSV inoculation



Activated cell numbers

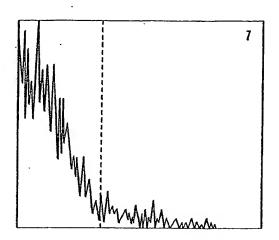


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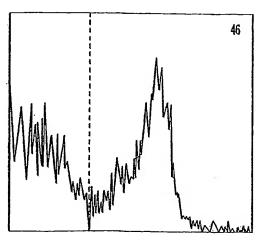
2MONTHS

Figure 15A



18 MONTHS

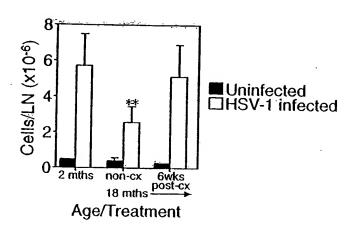
Figure 15B



18 MONTHS CASTRATED

Figure 15c

APPLICANT: Boyd
APPLN. NO.: TBA
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FIGURE\ 16

APPLICANT: Boyd
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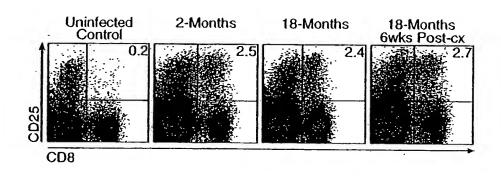


Figure 17A

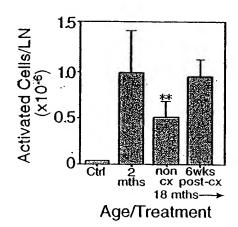


Figure 17B

APPLICANT: Boyd
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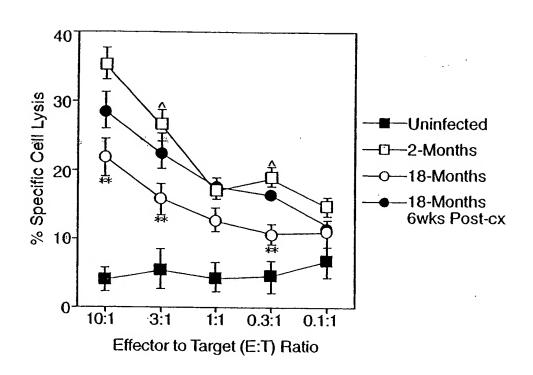
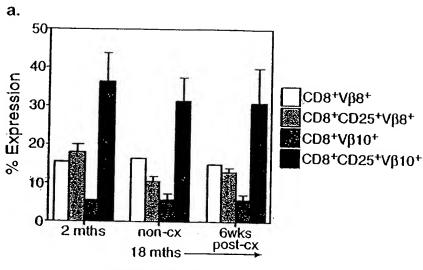


FIGURE 18

APPLICANT: Boyd
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Age/Treatment

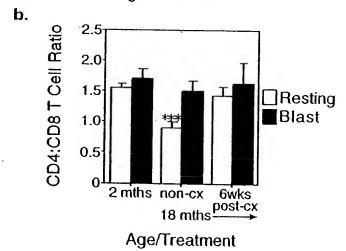


FIGURE 19

APPLICANT: Boyd APPLN. NO.: TBA

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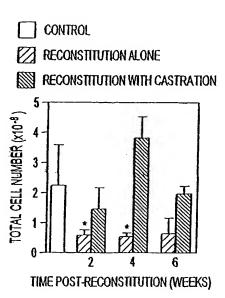


Figure 20A

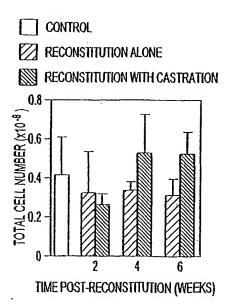


Figure 20c

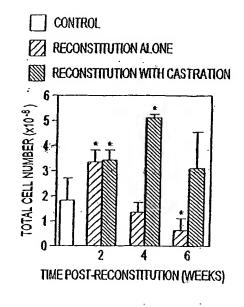


Figure 20B

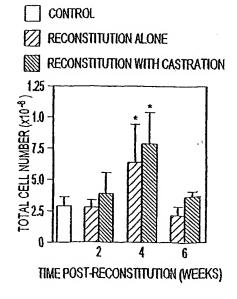


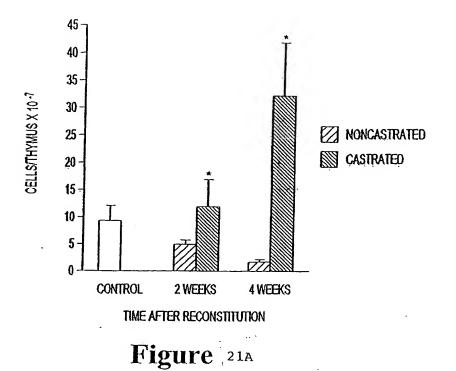
Figure 20D

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003 EXPRESS MAIL No. EV182107278US

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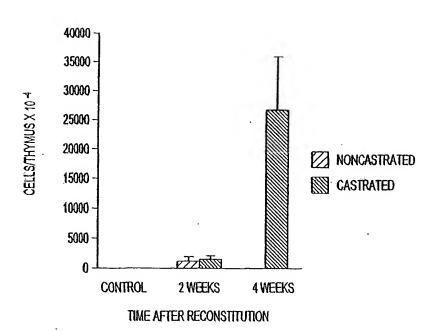
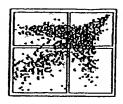


Figure 21B

APPLICANT: Boyd
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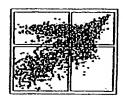
AGE MATCHED



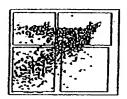
NON-CASTRATED

CASTRATED

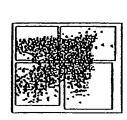
2 WEEKS POST RECONSTITUTION



8



4 WEEKS POST RECONSTITUTION



CD8

APPLICANT: Boyd APPLN. NO.: TBA

FILING DATE: December 30, 2003

EXPRESS MAIL No. EV182107278US

TITLE: Hematopoietic Stem Cell Gene Therapy

DOCKET No.: NOR-016CP2 / 286336.155



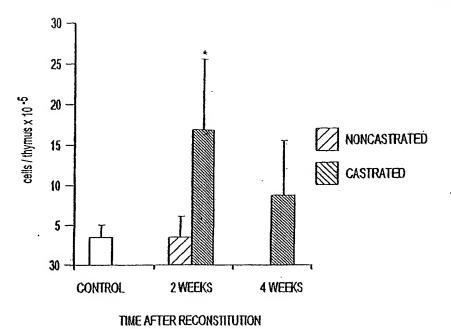


Figure 23A

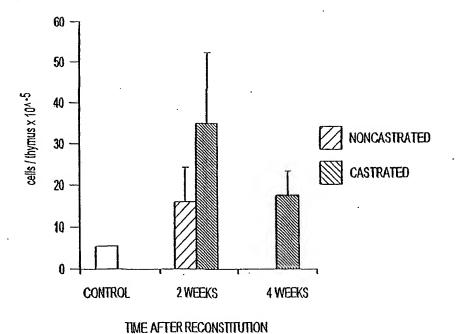


Figure 23B

APPLICANT: APPLN. NO.: Boyd TBA

APPLN. NO.: 1BA
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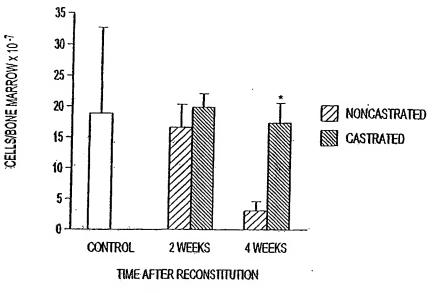


Figure 24A

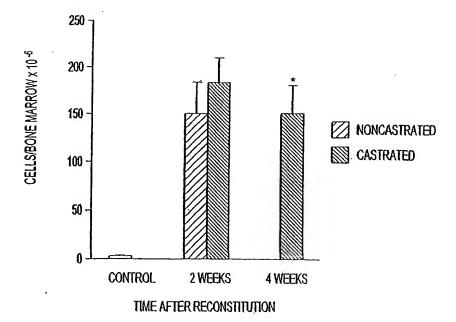


Figure 24B

APPLICANT: APPLN. NO.: Boyd TBA

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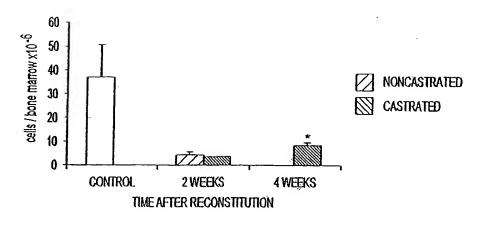


Figure 25A

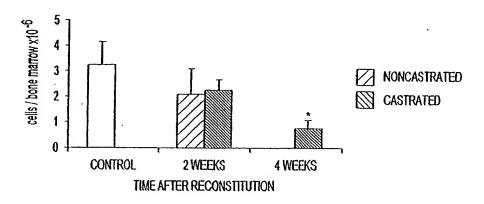


Figure 25B

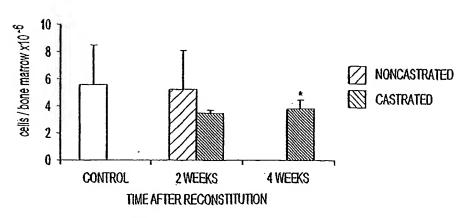


Figure 25C

APPLICANT: Boyd
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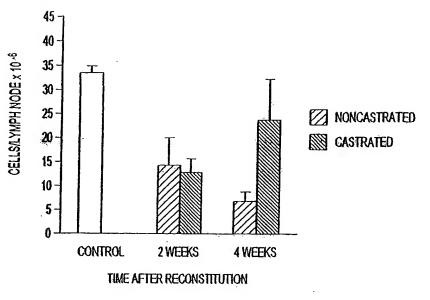


Figure 26A

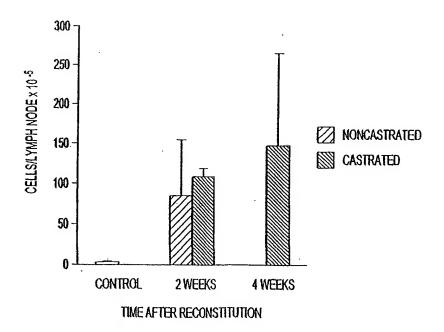
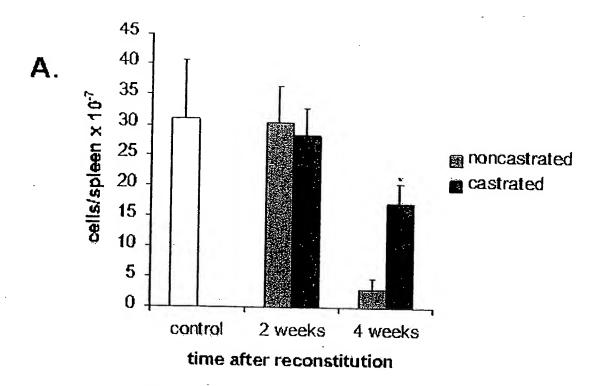


Figure 26B

APPLICANT: Boyd APPLN. NO.: TBA

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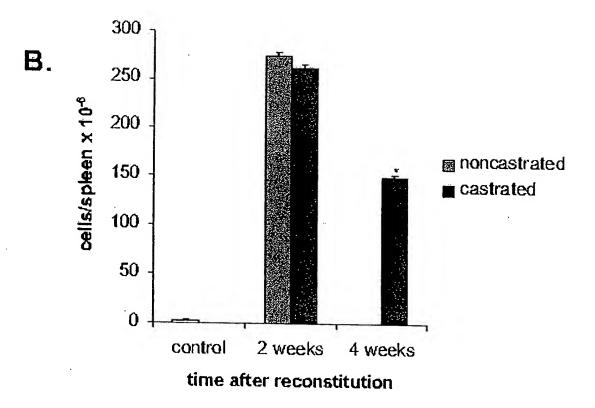
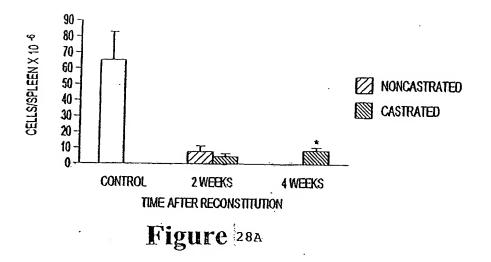


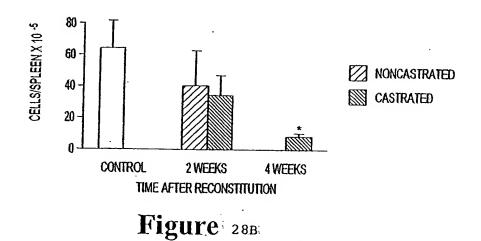
FIGURE 27.

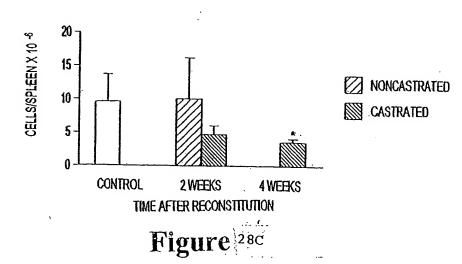
APPLICANT: Boyd

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APPLICANT: Boyd APPLN. NO.: TBA APPLN. NO.: IBA
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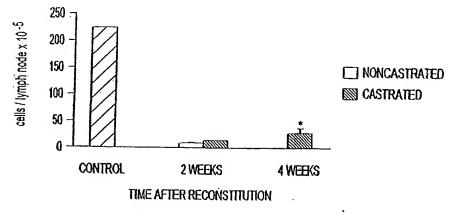


Figure 29A

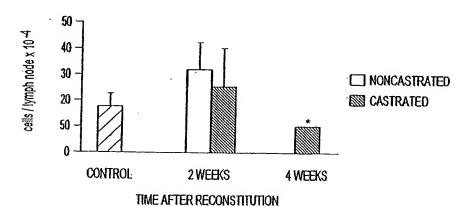
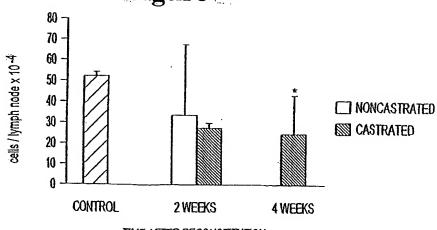


Figure 29B

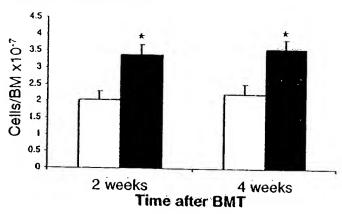


TIME AFTER RECONSTITUTION

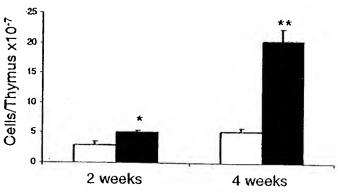
Figure 290

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
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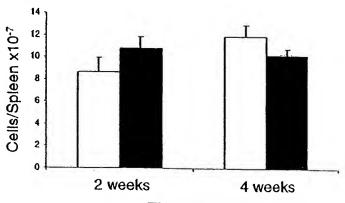


B. **Thymus**



Time after BMT

C. **Spleen**



Time after BMT

Figure 30

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
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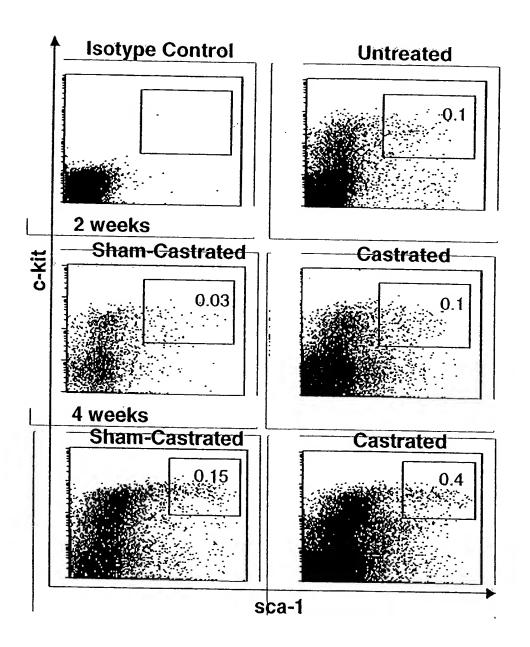
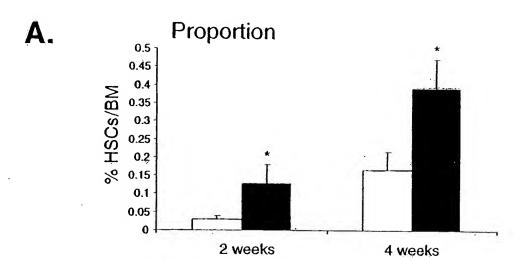


Figure 31

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
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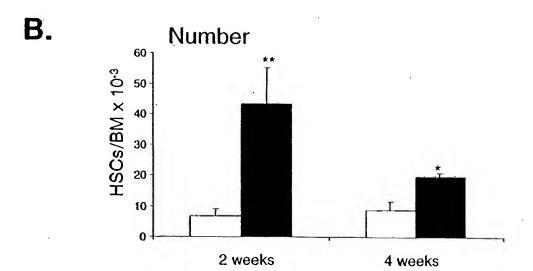
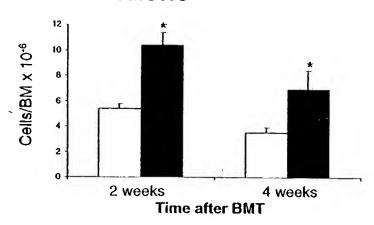


Figure 32

APPLICANT: Boyd
APPLN. NO.: TBA
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B Cell Precursors



B. **B** Cells

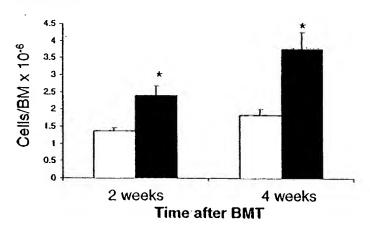


Figure 33

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
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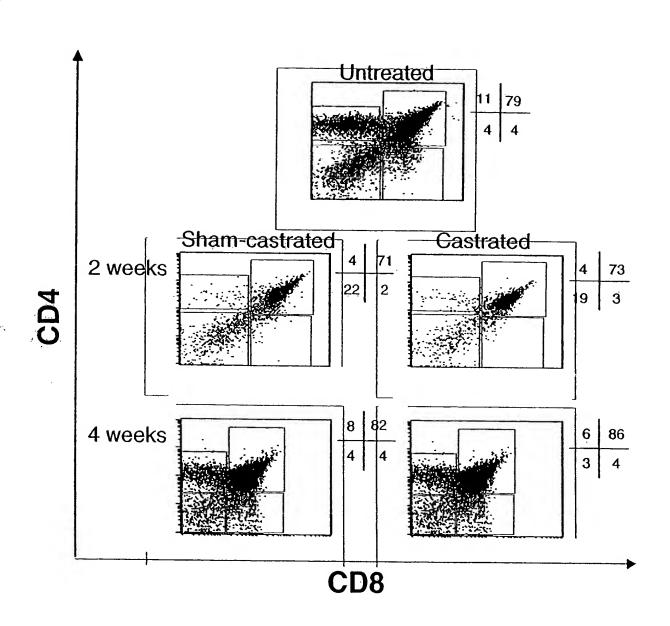


Figure 34

APPLICANT: Boyd APPLN. NO.: TBA FILING DATE: December 30, 2003 EXPRESS MAIL No. EV182107278US TITLE: Hematopoietic Stem Cell Gene Therapy DOCKET No.: NOR-016CP2 / 286336.155

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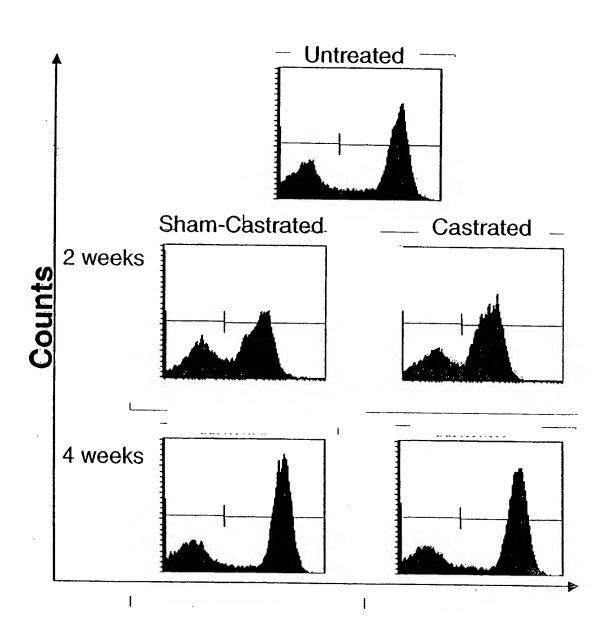


Figure 35

APPLICANT: Boyd
APPLN. NO.: TBA
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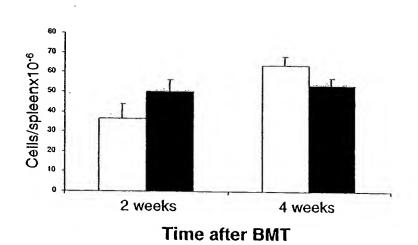
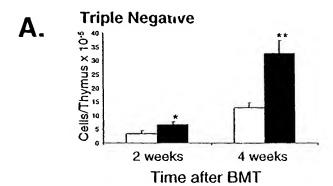
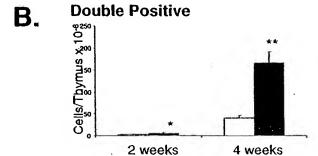


Figure 36

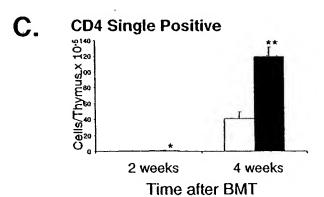
APPLICANT: Boyd
APPLN.NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
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Time after BMT



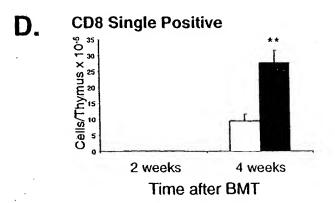
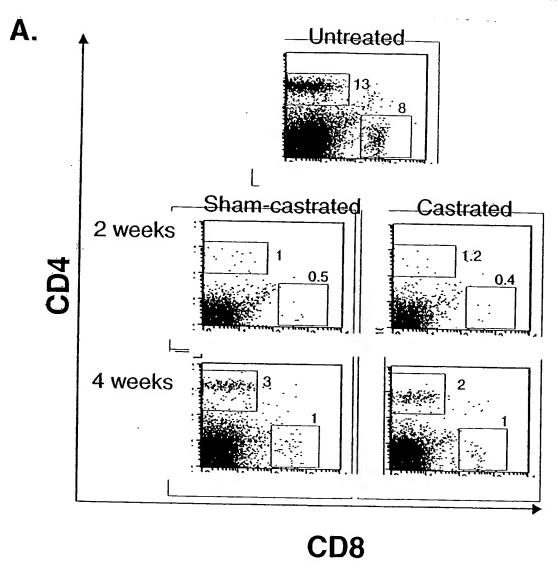


Figure 37

APPLICANT: Boyd
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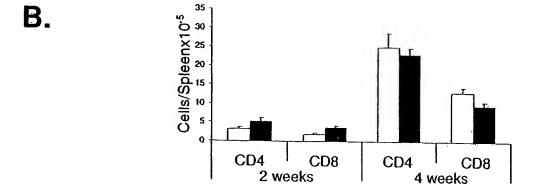
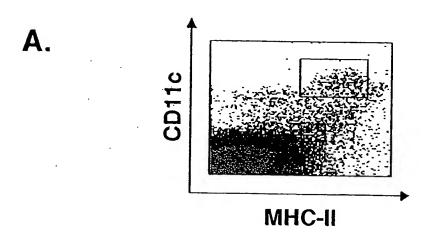


Figure 38

APPLICANT: Boyd
APPLN. NO.: TBA
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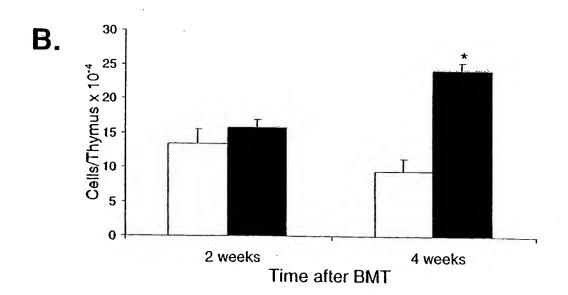
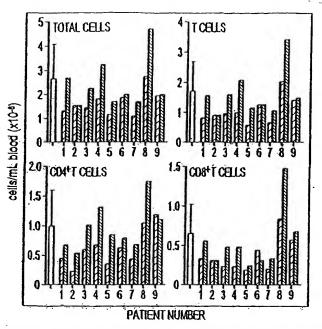


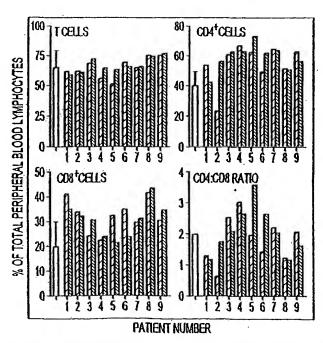
Figure 39

APPLICANT: Boyd
APPLN. NO.: TBA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
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CONTROL DPRE-LHRH-A TREATMENT 1821 4 MONTHS OF LHRH-A TREATMENT

Figure 40

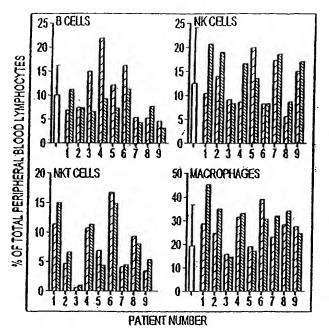


□ CONTROL Ø PRE-LHRH-A TREATMENT Ø 4 MONTHS OF LHRH-A TREATMENT

Figure 41

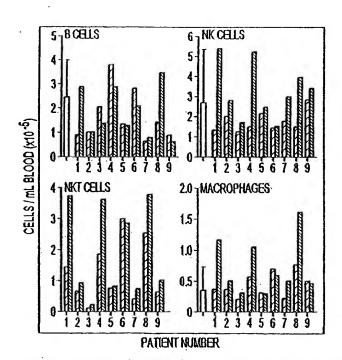
APPLICANT: Boyd APPLN. NO.: TBA

APPLN. NO.: 1BA
FILING DATE: December 30, 2003
EXPRESS MAIL No. EV182107278US
TITLE: Hematopoietic Stem Cell Gene Therapy
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☐ CONTROL Ø PRE-LHRH A TREATMENT 🔞 4 MONTHS OF LHRHA TREATMENT

Figure 42



C) CONTROL (2) PRE-LHRHA TREATMENT (53) 4 MONTHS OF LHRHA TREATMENT

Figure 43

APPLICANT: Boyd APPLN. NO.: TBA

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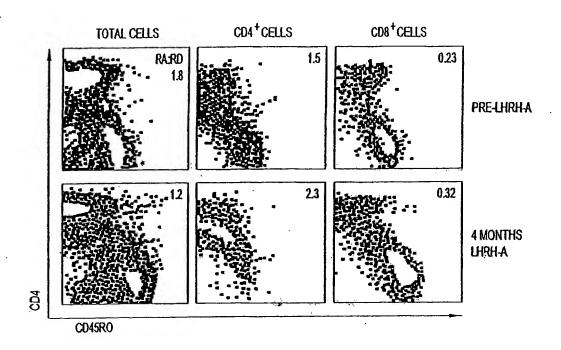
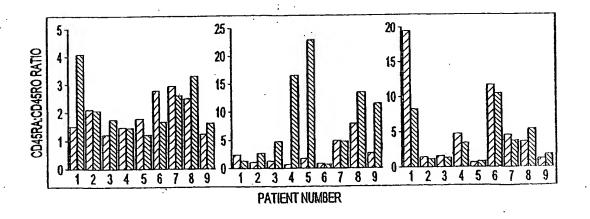


Figure 44A



PRE-TREATMENT

4 MONTHS OF TREATMENT

Figure 44B